

AMENDMENTS TO THE CLAIMS

1. (Cancelled)
2. (Previously presented) An optical data recording method, comprising the steps of:
interrupting an operation of recording data in an optical data recording medium when a predetermined amount of data is continuously recorded in the optical data recording medium by using a laser beam emitted from a laser;
measuring a recording state of the optical data recording medium immediately before the interruption;
correcting a recording power of the laser beam for a next recording operation in the optical data recording medium based on the measured recording state; and
starting the next recording operation by using the laser beam with the determined recording power in the optical data recording medium at a position immediately after the interruption, wherein in the step of interrupting, the predetermined amount of data is determined so that a time period required for completing recording of the predetermined amount of data is shorter than a time period over which a recording quality degrades due to a rise of a temperature of the laser.
3. (Currently amended) An optical data recording method, comprising the steps of:
interrupting an operation of recording data in an optical data recording medium when a predetermined amount of data is continuously recorded in the optical data recording medium by using a laser beam emitted from a laser;
measuring a recording state of the optical data recording medium immediately before the interruption;
correcting a recording power of the laser beam for a next recording operation in the optical data recording medium based on the measured recording state; and
starting the next recording operation by using the laser beam with the determined recording power in the optical data recording medium at a position immediately after the interruption, wherein

in the step of interrupting, the predetermined amount of data is determined so that a length along a radial direction of the optical data ~~recording~~ recording medium covered by the predetermined amount of data is shorter than a length over which a recording quality degrades due to a fluctuation of a sensitivity of a recording layer of the optical data ~~recording~~ recording medium.

4. (Cancelled)

5. (Previously presented) An optical data recording method, comprising the steps of:
interrupting an operation of recording data in an optical data recording medium when a predetermined amount of data is continuously recorded in the optical data recording medium by using a laser beam emitted from a laser;
measuring a recording state of the optical data recording medium immediately before the interruption;
correcting a recording power of the laser beam for a next recording operation in the optical data recording medium based on the measured recording state; and
starting the next recording operation by using the laser beam with the determined recording power in the optical data recording medium at a position immediately after the interruption, wherein in the step of correcting, a change of the recording power in each correction is restricted to be less than a predetermined value.

6 – 7 (Withdrawn)

8 – 9 (Cancelled)

10. (Previously presented) An optical data recording method, comprising the steps of:
interrupting an operation of recording data in an optical data recording medium when a predetermined amount of data is continuously recorded in the optical data recording medium by using a laser beam emitted from a laser;

measuring a recording state of the optical data recording medium immediately before the interruption to measure a recording quality;

correcting a recording power of the laser beam for a next recording operation in the optical data recording medium based on the measured recording quality; and

starting the next recording operation by using the laser beam with the determined recording power in the optical data recording medium at a position immediately after the interruption, wherein

in the step of measuring, the recording quality is measured in a seek operation performed when starting the next recording operation after the interrupted recording operation, a setting being made so that a reading quality is an optimum during the measurement of the recording quality, and the setting being made so that the recording quality is an optimum after the measurement of the recording quality.

11. (Original) The optical data recording method as claimed in claim 10, wherein in the step of measuring, an offset of a focus position of a focus servo is set so that the reading quality is an optimum during the measurement of the recording quality in the seek operation, and the offset of the focus position is set so that the recording quality is an optimum after the measurement of the recording quality.

12. (Withdrawn)

13. (Previously presented) An optical data recording device, comprising:
a recording state measurement unit configured to measure a recording state of an optical data recording medium to measure a recording quality;

a recording power calculation unit configured to calculate a recording power of a laser beam emitted from a laser for a next recording operation in the optical data recording medium based on the measured recording quality;

a laser control unit configured to control the laser based on the calculated recording power;

a recording control unit configured to interrupt an operation of recording data in the optical data recording medium when a predetermined amount of data is continuously recorded in the optical

data recording medium, direct the recording state measurement unit to measure a recording state of the optical data recording medium immediately before the interruption, direct the recording power calculation unit and the laser control unit to determine a recording power of the laser beam for a next recording operation in the optical data recording medium based on the measured recording quality, and start the next recording operation by using the laser beam with the determined recording power in the optical data recording medium at a position immediately after the interruption; and

a focus position offset setting unit configured to set an offset of a focus position of a focus servo,

wherein the focus position offset setting unit sets the offset of the focus position of the focus servo so that the reading quality is an optimum during the measurement of the recording quality in a seek operation, and sets the offset of the focus position so that the recording quality is an optimum after the measurement of the recording quality in the seek operation.

14 – 25 (Withdrawn)